

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\  
 Data File : VF059549.D  
 Acq On : 19 Jul 2018 9:44  
 Operator : VA/AP  
 Sample : J3991-04  
 Misc : 4.98g/5mL/MSVOA F/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-3-A

Quant Time: Jul 19 14:40:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 04:09:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 591      | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 737      | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 98       | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.58 | 152  | 66       | 50.00 | ug/l  | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 186      | 20.24  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 40.48% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 260      | 40.73  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 81.46% |          |
| 50) Toluene-d8              | 7.73  | 98   | 677      | 42.11  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 84.22% |          |
| 62) 4-Bromofluorobenzene    | 11.48 | 95   | 140      | 16.60  | ug/l   | -0.04    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 33.20% |          |

| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 3) Chloromethane             | 1.11 | 50   | 189      | 47.44  | ug/l # | 44     |
| 5) Bromomethane              | 1.28 | 94   | 80       | 28.71  | ug/l # | 3      |
| 10) Methyl Iodide            | 1.86 | 142  | 98       | 13.47  | ug/l # | 23     |
| 11) Tert butyl alcohol       | 2.76 | 59   | 64       | 160.15 | ug/l # | 74     |
| 12) 1,1-Dichloroethene       | 1.85 | 96   | 66       | 14.94  | ug/l # | 1      |
| 13) Acrolein                 | 2.12 | 56   | 69       | 467.98 | ug/l # | 12     |
| 14) Allyl chloride           | 2.16 | 41   | 69       | 12.51  | ug/l # | 1      |
| 15) Acrylonitrile            | 3.07 | 53   | 65       | 84.29  | ug/l # | 34     |
| 16) Acetone                  | 2.25 | 43   | 59       | 17.32  | ug/l # | 64     |
| 17) Carbon Disulfide         | 1.94 | 76   | 63       | 5.56   | ug/l # | 74     |
| 19) Methyl tert-butyl Ether  | 2.52 | 73   | 76       | 5.48   | ug/l # | 59     |
| 21) trans-1,2-Dichloroethene | 2.33 | 96   | 83       | 20.32  | ug/l # | 1      |
| 22) Diisopropyl ether        | 2.91 | 45   | 137      | 8.84   | ug/l # | 37     |
| 23) Vinyl Acetate            | 3.35 | 43   | 81       | 8.94   | ug/l # | 84     |
| 24) 1,1-Dichloroethane       | 2.95 | 63   | 119      | 12.43  | ug/l # | 91     |
| 25) 2-Butanone               | 4.59 | 43   | 176      | 82.47  | ug/l # | 60     |
| 26) 2,2-Dichloropropane      | 3.71 | 77   | 72       | 11.37  | ug/l # | 62     |
| 27) cis-1,2-Dichloroethene   | 3.58 | 96   | 75       | 15.77  | ug/l # | 1      |
| 28) Bromochloromethane       | 3.74 | 49   | 66       | 15.67  | ug/l # | 6      |
| 29) Tetrahydrofuran          | 4.25 | 42   | 212      | 243.57 | ug/l # | 38     |
| 31) Cyclohexane              | 3.90 | 56   | 123      | 24.81  | ug/l # | 15     |
| 32) 1,1,1-Trichloroethane    | 4.29 | 97   | 86       | 9.57   | ug/l # | 21     |
| 36) 1,1-Dichloropropene      | 4.41 | 75   | 68       | 9.22   | ug/l # | 45     |
| 37) Ethyl Acetate            | 4.32 | 43   | 179      | 44.41  | ug/l # | 41     |
| 38) Carbon Tetrachloride     | 4.33 | 117  | 96       | 11.36  | ug/l # | 12     |
| 40) Benzene                  | 4.93 | 78   | 199      | 13.91  | ug/l # | 51     |
| 41) Methacrylonitrile        | 4.93 | 41   | 60       | 28.36  | ug/l # | 33     |
| 42) 1,2-Dichloroethane       | 5.22 | 62   | 62       | 6.60   | ug/l # | 85     |
| 43) Isopropyl Acetate        | 7.13 | 43   | 115      | 21.69  | ug/l # | 38     |
| 44) Trichloroethene          | 5.64 | 130  | 62       | 11.70  | ug/l # | 1      |
| 47) Bromodichloromethane     | 6.45 | 83   | 74       | 7.95   | ug/l # | 25     |
| 48) Methyl methacrylate      | 6.89 | 41   | 239      | 63.13  | ug/l # | 13     |
| 49) 1,4-Dioxane              | 6.93 | 88   | 86       | Below  | Cal #  | 15     |
| 51) 4-Methyl-2-Pentanone     | 8.42 | 43   | 99       | 26.35  | ug/l # | 40     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 04:09:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 53) t-1,3-Dichloropropene      | 8.58  | 75   | 60       | 7.01   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene    | 7.51  | 75   | 90       | 10.55  | ug/l # | 72       |
| 56) Ethyl methacrylate         | 8.87  | 69   | 101      | 20.25  | ug/l # | 49       |
| 57) 1,3-Dichloropropane        | 9.02  | 76   | 73       | 10.27  | ug/l # | 42       |
| 59) 2-Hexanone                 | 9.64  | 43   | 240      | 84.51  | ug/l # | 30       |
| 60) Dibromochloromethane       | 9.00  | 129  | 66       | 9.74   | ug/l # | 12       |
| 73) Isopropylbenzene           | 11.26 | 105  | 102      | 24.49  | ug/l # | 51       |
| 74) N-amyl acetate             | 11.40 | 43   | 93       | 69.72  | ug/l # | 48       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.82 | 83   | 61       | 67.15  | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 69       | 93.02  | ug/l # | 38       |
| 78) n-propylbenzene            | 11.72 | 91   | 64       | 13.40  | ug/l # | 53       |
| 79) 2-Chlorotoluene            | 11.85 | 91   | 63       | 21.41  | ug/l # | 43       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 75       | 221.34 | ug/l # | 6        |
| 82) 4-Chlorotoluene            | 11.88 | 91   | 60       | 18.20  | ug/l # | 46       |
| 83) tert-Butylbenzene          | 12.32 | 119  | 73       | 21.80  | ug/l # | 26       |
| 85) sec-Butylbenzene           | 12.55 | 105  | 64       | 15.03  | ug/l # | 56       |
| 90) Hexachloroethane           | 13.03 | 117  | 75       | 89.09  | ug/l # | 17       |
| 94) Hexachlorobutadiene        | 14.18 | 225  | 80       | 134.18 | ug/l # | 17       |
| 95) Naphthalene                | 14.51 | 128  | 64       | 26.47  | ug/l # | 69       |
| -----                          |       |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

